

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA10	4,504,803	03/1985	Lee et al.	332	31 R	
NM	AB10	4,517,519	05/1985	Mukaiyama	329	126	
NM	AC10	4,517,520	05/1985	Ogawa	329	145	
NM	AD10	4,518,935	05/1985	van Roermund	333	173	
NM	AE10	4,521,892	06/1985	Vance et al.	375	88	
NM	AF10	4,563,773	07/1986	Dixon, Jr. et al.	455	327	
NM	AG10	4,577,157	03/1986	Reed	329	50	
NM	AH10	4,583,239	04/1986	Vance	375	94	
NM	AI10	4,591,736	05/1986	Hirao et al.	307	267	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ10	WO 97/38490 A1	10/1997	PCT	H03K	7/00	N/A
NM	AK10	WO 98/00953 A1	01/1998	PCT	H04L	27/26	N/A
NM	AL10	WO 98/24201 A1	06/1998	PCT	H04H	1/00	N/A
NM	AM10	EP 0 099 265 A1	01/1984	EP	H03D	3/04	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	10	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).
NM	AO	10	Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," <i>IEE Proceedings-H: Microwaves, Antennas and Propagation</i> , IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).
NM	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No. 2, pp. 169-173 (April 1987).
NM	AQ	10	Gilchrist, B. et al., "Sampling hixes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).
NM	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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NM	AA9	4,392,255	07/1983	Del Giudice	455	328	
NM	AB9	4,430,629	02/1984	Betzl et al.	333	165	
NM	AC9	4,446,438	05/1984	Chang et al.	328	127	
NM	AD9	4,456,990	06/1984	Fisher et al.	370	119	
NM	AE9	4,472,785	09/1984	Kasuga	364	718	
NM	AF9	4,479,226	10/1984	Prabhu et al.	375	1	
NM	AG9	4,481,490	11/1984	Huntley	332	41	
NM	AH9	4,481,642	11/1984	Hanson	375	9	
NM	AI9	4,485,488	11/1984	Houdart	455	327	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ9	WO 94/05087 A1	03/1994	PCT	H03M	1/00	N/A
NM	AK9	WO 96/02977 A1	02/1996	PCT	H04B	1/26	N/A
NM	AL9	WO 96/08078 A1	03/1996	PCT	H03D	3/00	N/A
NM	AM9	WO 96/39750 A1	12/1996	PCT	H04B	1/26	N/A

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NM	AN	2	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
NM	AO	2	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
NM	AP	2	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
NM	AQ	2	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
NM	AR	2	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

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NM	AA8	4,320,536	03/1982	Dietrich	455	325	
NM	AB8	4,346,477	08/1982	Gordy	455	257	
NM	AC8	4,355,401	10/1982	Ikoma et al.	375	5	
NM	AD8	4,356,558	10/1982	Owen et al.	364	724	
NM	AE8	4,360,867	11/1982	Gonda	363	158	
NM	AF8	4,363,132	12/1982	Collin	455	52	
NM	AG8	4,365,217	12/1982	Berger et al.	333	165	
NM	AH8	4,370,572	01/1983	Cosand et al.	307	353	
NM	AI8	4,389,579	06/1983	Stein	307	353	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ8	JP 2-39632	02/1990	JP	H04B	7/12	No
NM	AK8	JP 2-131629	05/1990	JP	H04B	7/12	No
NM	AL8	JP 2-276351	11/1990	JP	H04L	27/22	No
NM	AM8	WO 80/01633 A1	08/1980	PCT	H04J	1/08	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, published May 21, 1990, (1 Page).
NM	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, published February 8, 1990, (1 Page).
NM	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published December 26, 1996, (3 Pages).
NM	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February 18, 1981, (2 Pages).
NM	AR	8	"DSO takes sampling rate to 1 Ghz," Electronic Engineering, Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

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NM	AA7	4,142,155	02/1979	Adachi	325	47	
NM	AB7	4,170,764	10/1979	Salz et al.	332	17	
NM	AC7	4,204,171	05/1980	Sulphin, Jr.	328	167	
NM	AD7	4,210,872	07/1980	Gregorian	330	9	
NM	AE7	4,245,355	01/1981	Pascoe et al.	455	326	
NM	AF7	4,253,066	02/1981	Fisher et al.	329	50	
NM	AG7	4,253,069	02/1981	Nosseck	330	107	
NM	AH7	4,308,614	12/1981	Fisher et al.	370	119	
NM	AI7	4,320,361	03/1982	Kikkert	332	16 R	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ7	EP 0 874 499 A2	10/1998	EP	H04L	25/06	N/A
NM	AK7	FR 2 743 231 A1	07/1997	FR	H04B	7/12	No
NM	AL7	GB 2 161 344 A	01/1986	GB	H04B	7/12	N/A
NM	AM7	GB 2 215 945 A	09/1989	GB	H04L	27/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	Z	Copy of Declaration of Richard C. Looker filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).
NM	AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).

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N. M. Jones

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA6	4,013,966	03/1977	Campbell	325	363	
NM	AB6	4,019,140	04/1977	Swordlow	322	65	
NM	AC6	4,035,732	07/1977	Lohrmann	325	446	
NM	AD6	4,047,121	09/1977	Campbell	331	76	
NM	AE6	4,066,841	01/1978	Young	178	66 R	
NM	AF6	4,066,919	01/1978	Huntington	307	353	
NM	AG6	4,081,748	03/1978	Batz	325	56	
NM	AH6	4,130,765	12/1978	Arakelian et al.	307	220 R	
	AI6	4,130,806	12/1978	Van Gerwen et al.	325	487	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ6	EP 0 785 635 A1	07/1997	EP	H04B	1/713	No
NM	AK6	EP 0 795 978 A2	09/1997	EP	H04L	5/06	N/A
NM	AL6	EP 0 837 565 A1	04/1998	EP	H04B	1/69	N/A
NM	AM6	EP 0 862 274 A1	09/1998	EP	H03M	1/06	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	6	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
NM	AO	6	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
NM	AP	6	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AQ	6	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AR	6	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

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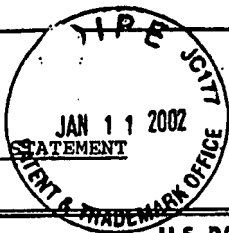
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NM	AA20 5,136,267	08/1992	Gabot	333	174	
NM	AB20 5,140,705	08/1992	Kosuga	455	318	
NM	AC20 5,150,124	09/1992	Moore et al.	342	68	
NM	AD20 5,151,661	09/1992	Caldwell et al.	328	14	
NM	AE20 5,159,710	10/1992	Cusdin	455	304	
NM	AF20 5,170,414	12/1992	Silvian	375	59	
NM	AG20 5,172,070	12/1992	Hiraiwa et al.	329	304	
NM	AH20 5,191,459	03/1993	Thompson et al.	359	133	
NM	AI20 5,204,642	04/1993	Ashgar et al.	331	135	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ20					Yes No
	AK20					Yes No
	AL20					Yes No
	AM20					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	20	Ndizi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997).
NM	AO	20	"New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
NM	AP	20	Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).
NM	AQ	20	Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).
NM	AR	20	Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

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MM	AA26	5,434,546	07/1995	Palmer	332	151	
	AB26	5,438,692	08/1995	Mohindra	455	324	
	AC26	5,444,415	08/1995	Dent et al.	329	302	
	AD26	5,444,416	08/1995	Ishikawa et al.	329	341	
	AE26	5,444,865	08/1995	Heck et al.	455	86	
	AF26	5,446,421	08/1995	Kechkaylo	332	100	
	AG26	5,446,422	08/1995	Mattila et al.	332	103	
	AH26	5,448,602	09/1995	Ohmori et al.	375	347	
	AI26	5,451,899	09/1995	Lawton	329	302	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ26						Yes No
	AK26						Yes No
	AL26						Yes No
	AM26						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	26	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).
NM	AO	26	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).
NM	AP	26	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).
NM	AQ	26	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).
NM	AR	26	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

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THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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January 3, 2000GROUP
2683

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA50	3,852,530	12/1974	Shen			
	AB50	4,220,977	09/1980	Yamanaka			
	AC50	5,016,242	05/1991	Tang			
	AD50	5,937,013	08/1999	Lam et al.			
	AE50	6,014,551	01/2000	Pesola et al.			07/16/1997
	AF50	6,073,001	06/2000	Sokoler			05/08/1998
	AG50	6,085,073	07/2000	Palermo et al.			03/02/1998
	AH50	6,400,963 B1	06/2002	Glöckler et al.			05/21/1999
	AI50	6,230,000 B1	05/2001	Tayloe			10/15/1998

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ23	WO 00/31659 A1	06/2000	PCT			N/A

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

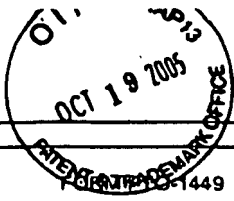
NM	AN	58	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
NM	AO	58	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
NM	AP	58	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics & Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
NM	AQ	58	Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).

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09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
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2686

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	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
NM	AG65	4,789,837	12/1988	Ridgers	—	—	
NM	AH65	5,634,207	05/1997	Yamaji et al.	—	—	
NM	AI65	5,642,071	06/1997	Sevenhans et al.	—	—	

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM23	DE 692 21 098 T2	01/1998	DE			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
NM	AQ59	Hellwarth, G.A. and Jones, G.D. "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).
NM	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

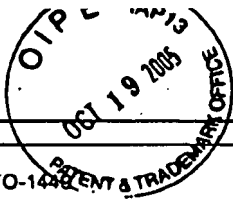
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Naghnch Mehrotra

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA66	6,211,718 B1	04/2001	Souetlnov	—	—	
NM	AB66	6,212,369 B1	04/2001	Avasarala	—	—	
NM	AC66	6,308,058 B1	10/2001	Souetlnov et al.	—	—	
NM	AD66	6,633,194 B2	10/2003	Arnborg et al.	—	—	
NM	AE66	2001/0036818 A1	11/2001	Dobrovolny	—	—	
NM	AF66	6,873,836 B1	03/2005	Sorrells et al.	—	—	
NM	AG66	6,879,817 B1	04/2005	Sorrells et al.	—	—	
NM	AH66	6,057,714	05/2000	Andrys et al.	—	—	
NM	AI66	5,994,689	11/1999	Charrier	—	—	

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

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EXAMINER INITIAL	DOC. REF.	CITATION
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EXAMINER

Wayne H. K. H. Davis

DATE CONSIDERED

4/2/07

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FORM PTO-1449

NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA67	6,512,544 B1	01/2003	Merrill <i>et al.</i>	—	—	
NM	AB67	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>	—	—	
NM	AC67	6,801,253 B1	10/2004	Yonemoto <i>et al.</i>	—	—	
NM	AD67	3,737,778	06/1973	Van Gerwen <i>et al.</i>	—	—	
NM	AE67	4,286,283	08/1981	Clemens	—	—	
NM	AF67	4,241,451	12/1980	Maixner <i>et al.</i>	—	—	
NM	AG67	5,014,130	05/1991	Heister <i>et al.</i>	—	—	
NM	AH67	5,390,215	02/1995	Anita <i>et al.</i>	—	—	
NM	AI67	5,805,460	09/1998	Greene <i>et al.</i>	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

D29 hme h-Mchrpovr

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